

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

5 Claim Listing

1. (Previously presented) A front-end array process for making a liquid crystal display panel, comprising:
depositing a molybdenum-containing metal layer on a glass substrate, wherein
10 said molybdenum-containing metal layer is a dual-metal layer;
forming a patterned photoresist on said molybdenum-containing metal layer,
wherein said patterned photoresist defines a gate and word line array pattern;
and
using said patterned photoresist as an etching mask, uniformly etching said
15 molybdenum-containing metal layer to form said gate and word line array
pattern having substantially oblique sidewalls, wherein said etching of said
molybdenum-containing metal layer uses gas mixture, wherein said etching
of said molybdenum-containing metal layer is detected by an end-point
detection method.
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2. (Original) The front-end array process for making a liquid crystal display panel according to claim 1 wherein after said etching of said molybdenum-containing metal layer, an over etching is carried out.
- 25 3. (Currently amended) The front-end array process for making a liquid crystal display panel according to claim 1 wherein ~~fluorine/oxygen-containing~~ said gas mixture is SF₆/O₂ having a ratio of about 700sccm/300sccm.
- 30 4. (Original) The front-end array process for making a liquid crystal display panel according to claim 1 wherein said etching of said molybdenum-containing metal

layer is executed under a process pressure higher than 25 mTorr.

- 5 5. (Original) The front-end array process for making a liquid crystal display panel according to claim 1 wherein said etching of said molybdenum-containing metal layer is further controlled by a source power, a bias power, process pressure, oxygen flowrate and flowrate of fluorine containing gas.
6. (Canceled)
- 10 7. (Previously presented) The front-end array process for making a liquid crystal display panel according to claim 6 wherein said dual-metal layer is Mo/AlNd, MoW/AlNd, or MoW/Al, wherein Mo and MoW are top layers, while AlNd and Al are bottom layers.
- 15 8. (Original) The front-end array process for making a liquid crystal display panel according to claim 1 wherein said etching of said molybdenum-containing metal layer is detected by an end-point detection method at an wavelength of about 704nm.
- 20 9. (Original) The front-end array process for making a liquid crystal display panel according to claim 1 wherein said gas mixture is oxygen/fluorine containing.
10. (Original) The front-end array process for making a liquid crystal display panel according to claim 1 wherein said gas mixture is oxygen/chlorine containing.
- 25 11. (Original) The front-end array process for making a liquid crystal display panel according to claim 1 wherein said gas mixture is oxygen/chlorine/fluorine containing.
- 30 12. (Original) The front-end array process for making a liquid crystal display panel

according to claim 1 wherein said gas mixture is SiF₆/O₂ containing.

13. (Previously presented) A front-end array process for making a liquid crystal display panel, comprising:
- 5 depositing a molybdenum-containing metal layer on a glass substrate;
forming a patterned photoresist and defining a gate and word line array pattern on said molybdenum-containing metal layer; and
etching said molybdenum-containing metal layer by using fluorine/oxygen containing gas mixture containing SF₆/O₂ with a ratio of about
10 700sccm/300sccm, and using said patterned photoresist as an etching mask to form said gate and word line array pattern.
14. (Previously presented) The front-end array process for making a liquid crystal display panel according to claim 13 wherein said gate and word line array pattern
15 have substantially oblique sidewalls.
15. (Original) The front-end array process for making a liquid crystal display panel according to claim 13 wherein after said etching of said molybdenum-containing metal layer, an over etching is carried out.
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16. (Canceled)
17. (Original) The front-end array process for making a liquid crystal display panel according to claim 13 wherein said etching of said molybdenum-containing metal
25 layer is executed under a process pressure higher than 25 mTorr.
18. (Original) The front-end array process for making a liquid crystal display panel according to claim 13 wherein said etching of said molybdenum-containing metal layer is detected by an end-point detection method at an wavelength of about
30 704nm.

19. (Original) The front-end array process for making a liquid crystal display panel according to claim 13 wherein said molybdenum-containing metal layer is a dual-metal layer.

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20. (Previously presented) The front-end array process for making a liquid crystal display panel according to claim 19 wherein said dual-metal layer is Mo/AlNd, MoW/AlNd, or MoW/Al, wherein Mo and MoW are top layers, while AlNd and Al are bottom layers.

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